

CLAIMS

1. A method for producing a zinc chloride-loaded support in which zinc chloride is loaded on a solid support, comprising a step of bringing a mixture of the solid support and zinc oxide into contact with water vapor containing a hydrogen chloride gas or a hydrogen chloride gas so that said zinc oxide is chemically converted into zinc chloride.

2. The method for producing a zinc chloride-loaded support according to claim 1, wherein said zinc oxide is in powder form.

3. The method for producing a zinc chloride-loaded support according to claim 1, wherein said chemical conversion of zinc oxide into zinc chloride is done in a vessel in which said zinc chloride-loaded support will be used.

4. The method for producing a zinc chloride-loaded support according to claim 2, wherein said chemical conversion of zinc oxide into zinc chloride is done in a vessel in which said zinc chloride-loaded support will be used.

5. The method for producing a zinc chloride-loaded support according to claim 1, wherein said solid support is selected from the group consisting of activated carbon, ceramic and silica gel.

6. The method for producing a zinc chloride-loaded support according to claim 2, wherein said solid support is selected from the group consisting of activated carbon, ceramic and silica gel.

7. A zinc chloride-loaded support produced by the method for producing a zinc chloride-loaded support according to claim 1.

8. A zinc chloride-loaded support produced by the method for producing a zinc chloride-loaded support according to claim 2.

9. A catalyst comprising a zinc chloride-loaded support according to claim 7.

10. A catalyst comprising a zinc chloride-loaded support according to claim 8.

11. A method for producing alkyl halide comprising a step of reacting alkyl alcohol and/or alkyl ether with hydrogen halide, wherein a zinc chloride-loaded support according to claim 7 is used as a reaction catalyst.

12. A method for producing alkyl halide comprising a step of reacting alkyl alcohol and/or alkyl ether with hydrogen halide, wherein a zinc chloride-loaded support according to claim 8 is used as a reaction catalyst.